

Amendments to the Claims

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims

Claims 1-4 (canceled)

5. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the polarizing dye material is made from a mixture comprising organic colorants and an alkaline wetting agent.
6. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the organic colorants correspond to the three primary colours and exhibit a nematic state.
7. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the depth of the microgrooves ranges from 50 to 300 nm.
8. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the depth of the microgrooves is about 100 nm.
9. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the width of the microgrooves ranges from 5 nm to 5 micrometers.
10. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the width of the microgrooves ranges from 5 nm to less than 1 micrometer.
11. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the thickness of the latex layer ranges from 0.5 to 5 μm .
12. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the thickness of the latex layer ranges from 0.5 to 2 μm .
13. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the thickness of the latex is about 1 μm .

14. (currently amended) The ~~ophthalmic lens~~process of claim [[1]]22, wherein the latex is poly(meth)acrylic latex, polyurethane latex or polyester latex.
15. (currently amended) The ~~ophthalmic lens~~process of claim [[1]]22, wherein the substrate is chosen from:
 - (I) the glasses obtained by polymerization of diethylene glycol bis(allyl carbonate);
 - (II) the glasses obtained by polymerization of acrylic monomers derived from bisphenol A; or
 - (III) the glasses obtained by polymerization of allyl monomers derived from bisphenol A.
16. (currently amended) The ~~ophthalmic lens~~process of claim [[1]]22, wherein the substrate is chosen from:
 - (A) the glasses obtained from poly(methyl methacrylate);
 - (B) the glasses obtained from polystyrene resin; or
 - (C) the glasses made of resin based on diallyl phthalate.
17. (currently amended) The ~~ophthalmic lens~~process of claim [[1]]22, wherein the lens further comprises a hard abrasion resistant coating deposited on the optically transparent composite film.
18. (currently amended) The ~~ophthalmic lens~~process of claim 17, wherein the hard abrasion resistant coating is a polysiloxane coating.
19. (currently amended) The ~~ophthalmic lens~~process of claim 18, wherein the polysiloxane coating is obtained by curing a hydrolysate of silanes containing an epoxysilane.
20. (currently amended) The ~~ophthalmic lens~~process of claim [[1]]22, wherein the lens further comprises an anti-reflection coating deposited on the hard abrasion-resistant coating.

21. (currently amended) The ~~ophthalmic lens~~process of claim ~~[[1]]~~22, wherein the lens further comprises a hydrophobic top coat deposited on the anti-reflection coating.
22. (currently amended) A process for the manufacture of an ophthalmic lens ~~as defined according to claim 1~~, comprising:
- a) providing a substrate made of organic glass having front and rear main faces,
 - b) optionally ~~carefully~~ cleaning and drying the front face of the substrate, which is to receive an optically transparent composite film comprising a latex layer and a polarizing dye material,
 - c) applying on the front face of the substrate a latex composition and drying or partially precuring said composition to form a dry latex layer having an outer face,
 - d) preparing the face of the latex layer opposite to the substrate by forming parallel microgrooves on the said face of the latex layer,
 - e) depositing a polarizing dye material on the front face of the said latex layer having the microgrooves, the said microgrooves being at least partially filled by the polarizing dye material, and
 - f) treating the resulting polarizing dye material for fixing the polarizing dye material,
- wherein the parallel microgrooves are formed through a process comprising a step for transferring a microstructure corresponding to the microgrooves from a mould, an internal face of which supports the said microstructure.
23. (original) The process of claim 22, wherein, in step f), the treatment of the polarizing dye is made in aqueous solution of inorganic salts in order to reduce the water solubility of said dye material.
24. (original) The process of claim 22, wherein at least 50% of the volume of the microgrooves are filled by the polarizing dye material.

25. (previously presented) The process of claim 22, wherein the parallel microgrooves are totally filled by the polarizing dye material.
26. (previously presented) The process of claim 22, wherein the parallel microgrooves are covered by a continuous layer of the polarizing dye material.
27. (currently amended) The process of claim 22, wherein the ~~parallel microgrooves are formed on the~~ outer surface of the transparent composite film ~~with the aid of a slightly abrasive rubbing of the said outer face~~ is rubbed by using abrasives.
28. (previously presented) The process of claim 27, wherein the outer surface of the transparent composite film is rubbed by using a soft cloth and abrasives.
29. (previously presented) The process of claim 23, wherein the process further comprises, prior to applying the polarizing dye material, a cleaning step of the outer face of the transparent composite film provided with the microgrooves.
30. (previously presented) The process of claim 29, wherein the cleaning step comprises:
rinsing with water the outer face of the transparent composite film, and then washing it with a soft cloth, and
rinsing again with deionized water the said outer face of the transparent composite film, and then drying it.
31. (canceled)
32. (currently amended) The process of claim ~~[[31]]~~22, wherein the step for transferring the microstructure corresponding to the microgrooves is carried out by a transfer molding technique.
33. (previously presented) The process of claim 32, wherein the transfer molding technique is a die-stamping technique.

34. (previously presented) The process of claim 32, wherein the transfer molding technique is an overmolding technique.
35. (previously presented) The process of claim 32, wherein the transfer molding technique is an in-mould technique.
36. (previously presented) The process of claim 23, wherein the inorganic salts contained in the aqueous treatment solution comprise dehydrated barium chloride, aluminium chloride, or barium chloride.
37. (currently amended) The process of claim 22, wherein the process successively includes the steps:

applying a hard abrasion-resistant coating on the transparent composite film,

applying an anti-reflection coating on the [[a]] hard abrasion-resistant coating, and

applying [[an]] a hydrophobic top coat on the anti-reflection coating.
38. (currently amended) The process of claim [[24]] 22, wherein the process further comprises, prior to applying the polarizing dye material, a cleaning step of the outer face of the transparent composite film provided with the microgrooves.